

## **11.0 Index**

### **A**

#### affected environment

- borrow areas (Section 3.5)
- Crescent Junction site (off-site disposal) (Section 3.3)
- Klondike Flats site (off-site disposal) (Section 3.2)
- Moab site (on-site disposal) (Section 3.1)
- proposed pipeline corridors (Sections 3.2.18, 3.3.19, 3.4.19)
- White Mesa Mill site (off-site disposal) (Section 3.4)

#### air quality

- affected environment (Sections 3.1.4, 3.2 )
- Class I and Class II areas (Table 3–4, Section 3.1.4)
- conformity review (Section 3.1.4)
- impacts under the action alternatives (Table 2–32, Sections 4.1.2, 4.2.2, 4.3.2, 4.4.2)
- impacts under the No Action alternative (Table 2–32, Section 4.6.2)
- National Ambient Air Quality Standards (NAAQS) (Table 3–4, Section 3.1.4)
- prevention of significant deterioration (PSD) (Table 3–4, Section 3.1.4)

#### alternatives (Section 1.4)

- comparison of (Table 2–32, Sections 2.6, 2.7.3)
- considered but not analyzed (Section 2.5)
- ground water remediation (Sections 1.4.3, 2.3)
- impacts of, *see* environmental consequences
- off-site disposal, description of (Sections 1.4.2, 2.2)
- on-site disposal, description of (Sections 1.4.1, 2.1)
- No Action, description of (Sections 1.4.4, 2.4)

#### aquatic ecology

- affected environment (Section 3.1.10)
- impacts under the action alternatives (Table 2–32, Section 4.1.6, 4.2.6, 4.3.6, 4.4.6)
- impacts under the No Action alternative (Table 2–32, Section 4.6.6)
- threatened and endangered, other special status species (Section 3.1.10.1, Appendix A1)

#### Arches National Park (search for term “Arches”)

- noise and vibration impacts (Sections 4.1.10, 4.2.10, 4.3.10)
- light impacts (Section 4.7.9)
- visitor numbers (Section 5.1)

### **B**

#### biological assessment (Appendix A1)

#### biological opinion (U.S. Fish and Wildlife Service) (Appendix A3)

#### borrow areas (Section 3.5)

- construction and operations, *see* construction and operation activities, borrow areas
- environmental consequences associated with (Section 4.5)
- locations of (Sections 2.1.3, 3.5)

#### borrow materials (Section 2.1.3)

- excavation and transport (Section 2.1.3.2)
- standards and requirements (Section 2.1.3.1)

## **C**

- Cane Creek Branch rail line (Sections 1.4.2, 2.2.4, 3.17, 4.2.12)
- climate and meteorology (Sections 3.1.5, 3.2.3, 3.3.4, 3.4.4)
- Colorado River
  - incision (Sections 2.6.1, 3.1.1, 4.1.1)
  - migration (Sections 1.5.2, 2.1.1, 2.1.4, 2.7.1, 3.2, 4.1.1, Table 2–33)
  - water withdrawals (Table 2–32)
- construction and operation activities
  - borrow areas (Sections 2.1.3, 2.2.3)
  - Crescent Junction site (Section 2.2.5)
  - ground water remediation (Section 4.1.3)
  - Klondike Flats site (Section 2.2.5)
  - Moab site (Sections 2.1.1, 2.2.1)
  - White Mesa Mill site (Section 2.2.5.2)
- contaminants
  - risk assessment of (Appendix A2)
- contamination at the Moab millsite, *see* tailings and other contaminated materials
- cooperating agencies (Section 1.6)
- Crescent Junction site
  - affected environment at (Section 3.3)
  - construction and operations at, *see* construction and operation activities, Crescent Junction site
  - description of (Section 3.3)
  - environmental consequences associated with (Section 4.3)
- cultural resources
  - affected environment (Sections 3.1.13, 3.2.10, 3.3.11, 3.4.11)
  - Class I inventories (Sections 3.1.13, 3.2.10, 3.3.11, 3.4.11, 3.4.19, 3.5.9, 3.5.10)
  - Class III surveys (Sections 3.1.13, 3.2.10, 3.3.11, 3.4.11, 3.4.19, 3.5.9, 3.5.10)
  - consultations (Section 3.1.13)
  - impacts under the action alternatives (Table 2–32, Sections 4.1.9, 4.2.9, 4.3.9, 4.4.9)
  - impacts under the No Action alternative (Table 2–32, Section 4.6.9)
  - National Register of Historic Places (Sections 2.6.1, 3.1.13, 3.2.10, 3.2.18, 3.3.11, 3.3.19, 3.4.19, 3.5.9, 3.5.10, 4.1.9, 4.2.9, 4.3.9, 4.4.9, 4.7.7, 7.1.12, Table 3–48)
  - traditional cultural properties (Sections 2.6.1, 2.7.1, 3.1.13, 3.2.10, 3.2.18, 3.3.11, 3.3.19, 3.4.11, 3.4.19, 3.5.1, 3.5.2, 3.5.3, 3.5.5, 3.5.6, 3.5.10, 4.1.9, 4.2.9, 4.3.9, 4.4.9, 4.4.18, 6.1, Tables 2–32, 2–33, 4–52)
  - White Mesa Ute Community (Sections 3.1.13, 3.2.10,)
- cumulative impacts (Chapter 5.0)

## **D**

- decision-making process (U.S. Department of Energy) (Section 1.4.5)
  - cost comparisons of alternatives (Section 2.7.3)
  - National Academy of Sciences review (Section 2.7.2)
- disclosure statements (Chapter 8.0)
- disposal cell
  - at Crescent Junction (Section 2.2.5.1)

- at Klondike Flats (Section 2.2.5.1)
- at Moab site (Section 2.1.1.3)
- at White Mesa Mill (Section 2.2.5.2)
- cover conceptual design and construction (Appendix B)
- failure under the action alternatives (Table 2–32, Sections 4.1.17, 4.2.17, 4.3.17, 4.4.17)
- failure under the No Action alternative (Table 2–32, Section 4.6.17)
- reference cell (Section 2.2.5.1, Appendix B)

## **E**

### environmental consequences

- borrow areas (Section 4.5)
- No Action alternative (Section 4.6)
- Crescent Junction off-site disposal alternative (Section 4.3)
- Klondike Flats off-site disposal alternative (Section 4.2)
- Moab on-site disposal alternative (Section 4.1)
- summary and comparison of (Section 2.6, Table 2–32)
- White Mesa Mill off-site disposal alternative (Section 4.4)

### environmental impact statement

- contents of (Section 1.7)
- list of agencies, organizations, and individuals receiving copies of (Chapter 9.0)

### environmental justice

- affected environment (Sections 3.1.20, 3.2.17, 3.3.18, 3.4.18)
- impacts under the action alternatives (Table 2–32, Sections 4.1.18, 4.2.18, 4.3.18, 4.4.18)
- impacts under the No Action alternative (Table 2–32, Section 4.6.18)
- populations, minority (Sections, 2.6.1, 7.1.19, Tables 2–32, 3–22)
- populations, low-income (Sections, 2.6.1, 7.1.19, Tables 2–32, 3–22)

## **F**

### fish species, *see* aquatic ecology

### floodplains and wetlands

- 100- and 500-year floods (Sections 2.6.1, Tables 2–32, 2–33)
- assessment for remedial action at Moab site (Appendix F)
- affected environment (Sections 3.1.8, 3.1.9, 3.2.6, 3.2.7, 3.3.7, 3.3.8, 3.4.7, 3.4.8)
- impacts under the action alternatives (Table 2–32, Sections 4.1.5, 4.2.5, 4.3.5, 4.4.5)
- impacts under the No Action alternative (Table 2–32, Section 4.6.5)

### Floyd D. Spence Act (Sections 1.1, 1.5, 2.7.2, 7.1.3)

## **G**

### geology

- affected environment (Sections 3.1.1, 3.2.1, 3.3.1, 3.4.1)
- impacts under the action alternatives (Table 2–32, Sections 4.1.1, 4.2.1, 4.3.1, 4.4.1)
- impacts under the No Action alternative (Table 2–32, Section 4.6.1)

### glossary (Chapter 10.0)

ground water

- affected environment (Sections 3.1.6, 3.2.4, 3.3.5, 3.4.5)
- compliance strategy (Section 2.3.2.3)
- compliance uncertainties (Section 2.3.2.1)
- contaminants of potential concern (Section 2.3.1.2)
- EPA standards (Section 2.3.1.1)
- impacts under the action alternatives (Table 2–32, Sections 4.1.3, 4.2.3, 4.3.3, 4.4.3)
- impacts under the No Action alternative (Table 2–32, Section 4.6.3)
- limited-use aquifer (Section 2.3.1, Table 2–33)
- remediation objectives (Section 2.3.2.1)
- remediation schedules (Section 2.3.2)
- remediation technologies (Section 2.3.3)
- supplemental standards (Section 1.4.3)

## **H**

human health

- current risk (Sections 3.1.19, 3.2.16, 3.3.17, 3.4.17)
- construction risks (Appendix D)
- existing occupational risks (Section 3.1.19.3)
- future potential risks at Moab site (Appendix E)
- impacts under the action alternatives (Table 2–32, Sections 4.1.15, 4.2.15, 4.3.15, 4.4.15)
- impacts under the No Action alternative (Table 2–32, Section 4.6.15)
- natural radiation environment (Section 3.1.19.1)
- radiation and human health (Appendix D)
- radon emissions (Sections 2.1.1, 2.6.1, 3.4.3, 4.2.15, 4.3.15, 4.4.15, 7.1.11)

## **I**

impacts, *see also* environmental consequences

- cumulative (Chapter 5.0)
- unavoidable (Chapter 6.0)

infrastructure

- affected environment (Sections 3.1.16, 3.2.13, 3.3.14, 3.4.14)
- impacts under the action alternatives (Table 2–32, Sections 4.1.12, 4.2.12, 4.3.12, 4.4.12)
- impacts under the No Action alternative (Table 2–32, Section 4.6.12)

International Uranium (USA) Corporation (IUC) (Sections 1.4.2, 1.5, 2.2.5, 3.4, 3.4.5, Table 2–32, 2–33)

irreversible or irretrievable commitment of resources (Chapter 6.0)

## **J**

No entries

## K

### Klondike Flats site

- affected environment at (Section 3.2)
- construction and operations at, *see* construction and operation activities, Klondike Flats site
- description of (Section 3.2)
- environmental consequences associated with (Section 4.2)

## L

### land use

- affected environment (Sections 3.1.12, 3.2.9, 3.3.10, 3.4.10)
  - impacts under the action alternatives (Table 2–32, Sections 4.1.8, 4.2.8, 4.3.8, 4.4.8)
  - impacts under the No Action alternative (Table 2–32, Section 4.6.8)
- legacy chemicals (Section 1.2.1)
- list of preparers (Chapter 8.0)

## M

### Matheson Wetlands Preserve

- pipeline crossing (Appendix F)
- shallow ground water impacts (Table 2–33)

### mitigation (Section 4.7)

### Moab site

- affected environment at (Section 3.1)
  - closure of (under the off-site disposal alternative) (Section 2.2.1.3)
  - construction and operations at, *see* construction and operation activities, Moab site
  - contamination at, *see* tailings and other contaminated materials
  - current status of (Section 1.2.2)
  - description of (Section 3.1)
  - environmental consequences associated with (Section 4.1)
  - ground water remediation, *see* ground water
  - history of (Section 1.2.1)
  - monitoring and maintenance of (under the on-site disposal alternative) (Section 2.1.4)
- Moab Wash (Sections 3.1.6, 3.1.7, 3.1.8, 3.1.10, 3.2.18, 4.1.3, 4.1.4, 4.1.5, 4.1.6, 4.1.17, 4.2.4, 4.2.5, 4.6.1, 4.6.5)
- realignment (Sections 4.1.4, 4.1.5, 4.2.5)

## N

### National Ambient Air Quality Standards (NAAQS), *see* air quality

### National Environmental Policy Act (NEPA) (Section 1.0, 2.0, 2.1.1, 2.3.1, 2.4, 2.6.3, 4.0, 4.1.18, 4.7, 5.0, 6.0, Table 2–35)

### No Action alternative

- see* alternatives, No Action

noise and vibration

affected environment (Sections 3.1.14, 3.2.11, 3.3.12, 3.4.12)

impacts under the action alternatives (Table 2–32, Sections 4.1.10, 4.2.10, 4.3.10, 4.4.10)

impacts under the No Action alternative (Table 2–32, Section 4.6.10)

Nuclear Regulatory Commission (NRC) (Sections 1.0, 2.1.1, 2.1.2, 2.1.3, 2.1.4, 2.2.5, 2.2.6, 2.3.2, 2.5.2, 3.4.3, 3.4.6, 4.0, 4.1, Table 2–33)

## **O**

off-site disposal alternative

*see* alternatives, off-site disposal

on-site disposal alternative

*see* alternatives, on-site disposal

## **P**

pipeline corridors, *see* slurry pipeline, corridor route maps

prevention of significant deterioration (PSD), *see* air quality

public and agency involvement (Section 1.5)

purpose and need for agency action (Section 1.3)

## **Q**

No entries

## **R**

rail transportation

*see* transportation options, rail

Record of Decision (ROD) (Sections 1.4.3, 1.4.4, 2.1, 2.1.1, 2.2, 2.3.1, 2.3.2, 2.7.1, 4.7, 5.3, Table 2–33)

regulatory drivers (Chapter 7.0)

regulatory requirements (Section 1.1)

residual radioactive material (RRM)

at vicinity properties (Sections 2.1.2, 2.6.1)

resource requirements

off-site disposal (Section 2.2.7)

on-site disposal (Section 2.1.5)

## **S**

scoping (Section 1.5.1)

issues/concerns raised (Section 1.5.2)

short-term uses and long-term productivity, relationship between (Chapter 6.0)

slurry pipeline, *see also* transportation options, slurry pipeline

corridor route maps (Appendix C)

system specifications (Section 2.2.4)

socioeconomics

- affected environment (Sections 3.1.18, 3.2.15, 3.3.16, 3.4.16)
- impacts under the action alternatives (Table 2–32, Sections 4.1.14, 4.2.14, 4.3.14, 4.4.14)
- impacts under the No Action alternative (Table 2–32, Section 4.6.14)
- Regional Input-Output Modeling System II (RIMS II) (Sections 4.1.14, 4.2.14)

soils

- affected environment (Sections 3.1.2, 3.2.2, 3.3.2, 3.4.2)
- impacts under the action alternatives (Table 2–32, Sections 4.1.1, 4.2.1, 4.3.1, 4.4.1)
- impacts under the No Action alternative (Table 2–32, Section 4.6.1)

surface water

- affected environment (Sections 3.1.7, 3.2.5, 3.3.6, 3.4.6)
- compliance standards (Table 2–33)
- impacts under the action alternatives (Table 2–32, Sections 4.1.4, 4.2.4, 4.3.4, 4.4.4)
- impacts under the No Action alternative (Table 2–32, Section 4.6.4)

## **T**

tailings and other contaminated materials (Sections 1.2.2, 3.1.3)

- ammonia salt layer (Sections 2.5.1, 2.6.1, 3.1.3, 4.1.3, 4.2.3, Tables 2–32, 2–33)
- excavation and preparation of (under the off-site disposal alternative) (Section 2.2.1.2)
- transportation of (under the off-site disposal alternative) (Section 2.2.4)

terrestrial ecology (wildlife and vegetation)

- affected environment (Sections 3.1.11, 3.2.8, 3.3.9, 3.4.9)
- impacts under the action alternatives (Table 2–32, Sections 4.1.7, 4.2.7, 4.3.7, 4.4.7)
- impacts under the No Action alternative (Table 2–32, Section 4.6.7)
- migratory birds (Sections 3.1.11, 3.2.8, 3.4.9, 4.1.7, 4.2.7, 4.3.7, 4.4.7, 4.7.6, Tables 2–32, 3–35, 3–54)
- tamarisk (Sections 1.5, 2.1.1, 3.1.3, 3.1.6, 3.1.8, 3.1.9, 4.1.3, 4.1.4)
- threatened and endangered, other special status species (Appendix A1)

traffic, vehicular

- affected environment (Sections 3.1.17.1, 3.2.14, 3.3.15, 3.4.15)
- Average Annual Daily Traffic counts (Sections 3.1.17, 3.2.14, 3.3.15, 4.1.16, 4.2.16, 4.3.16, Table 2–32)
- impacts under the action alternatives (Table 2–32, Sections 4.1.16, 4.2.16, 4.3.16, 4.4.16)
- impacts under the No Action alternative (Table 2–32, Section 4.6.16)

transportation

- affected environment (Section 3.1.17, 3.2.14, 3.3.15, 3.4.15)
- impact analysis (Appendix H)
- of borrow materials (Section 2.1.3.2)
- of tailings and other contaminated materials (Section 2.2.4)

transportation options (under the off-site disposal alternative)

- rail (Section 2.2.4.2)
- slurry pipeline (Section 2.2.4.3)
- truck (Section 2.2.4.1)

truck transportation

- see* transportation options, truck

## U

unavoidable impacts, *see* impacts

uncertainties and their consequences (Section 2.6.2, Table 2–33)

Union Pacific Railroad (Sections 1.2, 1.4, 2.2.4, 3.1.13, 3.1.17, 3.2.9, 3.2.11, 3.2.18, 3.3.10, 3.3.11, 4.2.12, 4.7.11)

Uranium Mill Tailings Radiation Control Act (UMTRCA) (Sections 1.0, 1.1, 2.1.1, 2.1.2, 2.1.4, 2.2.1, 2.2.5, 2.3.1, 3.1.3, Table 3–7)

## V

vegetation, *see* terrestrial ecology

vicinity properties

- applicable regulations (Section 2.1.2.4)

- characterization and remediation of (Section 2.1.2)

- inclusion survey area (Section 2.1.2)

- Remedial Action Agreement (Section 2.1.2)

visual resources

- affected environment (Sections 3.1.15, 3.2.12, 3.3.13, 3.4.13)

- impacts under the action alternatives (Table 2–32, Sections 4.1.11, 4.2.11, 4.3.11, 4.4.11)

- impacts under the No Action alternative (Table 2–32, Section 4.6.11)

## W

waste management

- affected environment (Sections 3.1.16.1, 3.2.13, 3.3.14, 3.4.14.1)

- impacts under the action alternatives (Table 2–32, Sections 4.1.13, 4.2.13, 4.3.13, 4.4.13)

- impacts under the No Action alternative (Table 2–32, Section 4.6.13)

White Mesa Mill site

- affected environment at (Section 3.4)

  - construction and operations at, *see* construction and operation activities, White Mesa Mill site

- description of (Section 3.4)

- environmental consequences associated with (Section 4.4)

- current operations (Appendix G)

wildlife, *see* terrestrial ecology

## X, Y, Z

No entries